

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0544	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0544 Upper Roberts Island	U	10.20						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	11.19	2.75	22.19	217.52%	0.42	0.07		
Trim / Thin Trees	0.30	0.33	1.62	15.88%				
Encroachments	0.17		0.17	1.67%	0.32	0.08		
Animal Control	0.56	0.22	1.44	14.12%				
Slope Stability	0.05	0.02	0.13	1.27%				
Erosion / Bank Caving	0.02	0.07	0.30	2.94%				
Crown Surface / Depressions / Rutting	0.16		0.16	1.57%				
Flood Preparedness & Training	0.10		0.10	0.98%				
<i>Interior Drainage & Piping Systems</i>								
Erosion Areas		0.01	0.04	0.39%				
<i>Rivers, Channels & Designated Floodways</i>								
Encroachments						0.01		
<i>Supplemental</i>								
DWR Erosion Survey	0.04	0.02	0.12	1.18%				
DWR UCIP Field Study					0.16	0.09		
LMA Totals:	12.59	3.42	26.27	257.51%	0.90	0.25	0.00	0.00

Unit No. 01 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
RD0544	U	6.05						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	7.24	2.18	15.96	263.95%		0.07		
Trim / Thin Trees	0.05	0.27	1.13	18.69%				
Encroachments	0.15		0.15	2.48%	0.17	0.06		
Animal Control	0.12	0.14	0.68	11.25%				
Slope Stability	0.04	0.02	0.12	1.98%				
Erosion / Bank Caving	0.02	0.04	0.18	2.98%				
Crown Surface / Depressions / Rutting	0.16		0.16	2.65%				
<i>Supplemental</i>								
DWR Erosion Survey	0.01	0.01	0.05	0.83%				
DWR UCIP Field Study					0.08	0.07		
Unit Totals:	7.79	2.66	18.43	304.80%	0.25	0.20	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 02 Old River RB	Overall Unit Rating	Total Unit Miles						
RD0544	U	4.15						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	3.95	0.57	6.23	149.95%	0.42			
Trim / Thin Trees	0.25	0.06	0.49	11.79%				
Encroachments	0.02		0.02	0.48%	0.15	0.02		
Animal Control	0.44	0.08	0.76	18.29%				
Slope Stability	0.01		0.01	0.24%				
Erosion / Bank Caving		0.03	0.12	2.89%				
<i>Interior Drainage & Piping Systems</i>								
Erosion Areas		0.01	0.04	0.96%				
<i>Rivers, Channels & Designated Floodways</i>								
Encroachments						0.01		
<i>Supplemental</i>								
DWR Erosion Survey	0.03	0.01	0.07	1.68%				
DWR UCIP Field Study					0.08	0.02		
<i>Unit Totals:</i>	4.70	0.76	7.74	186.29%	0.65	0.05	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.05
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/19/2016 - 4/19/2016		10/12/2016 - 11/2/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	66
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0544_01_s_2012_66				
Comment Code					
Inspector Comment					
The LMA has a good working knowledge of flood response. LMA has not been involved in flood training for several years.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	71
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0544_01_s_2013_71				
Comment Code					
Inspector Comment					
The LMA has a copy of O&M manual on file in the office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	72
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0544_01_s_2013_72				
Comment Code					
Inspector Comment					
The LMA maintains an adequate supply of floodfight material.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	172
LM End	0.01	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.870356 °	37.870356 °
				-121.329852 °	-121.329852 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41906					
DS_ID:22640					
EP_NO: 4116					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status.- a signboard on waterside shoulder and across the river.- no indicators on landside.					
FIELD_STRUCT_DESC: 8-5/8-inch steel gas line through the levee, 3.9 feet below the crown and under the river channel. Waterward slope rock revetted. (App. No. 4116 - PG&E) O&M Manual SJR 007, April 1964.					
FS Date: 10/29/2013					

Photo 1 of 2 : UCIP_FA_2016_41906_41713.jpg



WS view: a signboard indicating a gasline on levee shoulder.

LM Start	0.01	Rating **	M	Issue No.	172 (cont)
LM End	0.01	Issue Type +	En	Location *	N/A

Photo 2 of 2 : UCIP_FA_2016_41906_41712.jpg



WS view: a signboard indicating a gasline across the river channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	168
LM End	0.01	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.870296 °	37.870296 °
				-121.329826 °	-121.329826 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:23851
DS_ID:24713
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears abandoned. May need proper abandonment. Pipe exposed on landside slope.
FIELD_STRUCT_DESC: *ABANDONED* A 12-inch steel pipe through the levee, 2 feet below levee crown. Appears abandoned. Only visible on landside slope. No pipe and other features visible on waterside.
FS Date: 10/29/2013

LM Start	0.01	Rating **	M	Issue No.	168 (cont)
LM End	0.01	Issue Type +	En	Location *	N/A

Photo 1 of 2 : UCIP_FA_2016_23851_41728.jpg



LS view: exposed 12-inch steel pipe on levee slope. Appears abandoned.

Photo 2 of 2 : UCIP_FA_2016_23851_41727.jpg



LS view: a 12-inch steel pipe on levee slope. Holes on the pipe, appears abandoned.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_108_92_20161107_00130.jpg



Looking southwest at untrimmed tree on landward slope.

Photo 1 of 5 : FA_2016_RD0544_108_4_20160929_00004.jpg



Looking west at equipment stored at landward toe fall 2015

Photo 2 of 5 : FA_2016_RD0544_108_4_20160929_00005.jpg



Looking southwest at equipment stored at landward toe fall 2015.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	0.06	Rating **	U	Issue No.	118
LM End	0.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.869570 °	37.869570 °
				-121.329556 °	-121.329556 °
DWR ID	DWR_RD0544_01_f_2015_118				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Finger erosion noted on landward slope.					

Photo 1 of 1 : FA_2016_RD0544_108_118_20160929_00072.jpg



Looking west at landside erosion for shoulder to middle of levee slope.

LM Start	0.26	Rating **	M	Issue No.	101
LM End	0.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.867148 °	37.866036 °
				-121.327797 °	-121.327862 °
DWR ID	DWR_RD0544_01_s_2016_101				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	0.26	Rating **	M	Issue No.	85
LM End	0.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.867087 °	37.865668 °
				-121.327802 °	-121.327798 °
DWR ID	DWR_RD0544_01_s_2015_85				
Comment Code					
DT : Ditch					
Inspector Comment					
Irrigation ditch at landward toe.					

Photo 1 of 1 : FA_2016_RD0544_108_85_20160929_00049.jpg



Looking southwest at Irrigation ditch at landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	0.38	Rating **	M	Issue No.	173
LM End	0.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.865468 °	37.865468 °
				-121.327602 °	-121.327602 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41974 DS_ID:22643 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Dense vegetation on waterside. FIELD_STRUCT_DESC: Abandoned pipe approximately 8.0 feet below the crown, unable to determine diameter, plugged by the United States Army Corps of Engineers, 1962. FS Date: 10/29/2013					

No Photos

LM Start	0.42	Rating **	U	Issue No.	2
LM End	0.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.864958 °	37.864958 °
				-121.327142 °	-121.327142 °
DWR ID	DWR_RD0544_01_s_2012_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Large untrimmed tree on landward slope.					

Photo 1 of 1 : FA_2016_RD0544_108_2_20161107_00131.jpg



Looking southwest at untrimmed tree on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_108_1_20160929_00001.jpg



Looking northeast at broken concrete piping on waterward berm.

Photo 1 of 1 : FA_2016_RD0544_108_6_20160929_00010.jpg



Looking southeast at tree branch on waterward slope.

Photo 1 of 1 : FA_2016_RD0544_108_3_20161107_00132.jpg



Looking south at dense veg on waterward slope.

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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	0.55	Rating **	M	Issue No.	61
LM End	0.63	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.864359 °	37.864011 °
				-121.324939 °	-121.323562 °
DWR ID	DWR_RD0544_01_f_2013_61				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	0.64	Rating **	M	Issue No.	86
LM End	0.64	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.863972 °	37.863972 °
				-121.323443 °	-121.323443 °
DWR ID	DWR_RD0544_01_s_2015_86				
Comment Code					
SI : Sign					
Inspector Comment					
Old "dead end" sign on waterward slope.					

Photo 1 of 1 : FA_2016_RD0544_108_86_20160929_00050.jpg



Looking southeast at wooden sign on waterward slope.

LM Start	0.64	Rating **	U	Issue No.	9
LM End	0.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863935 °	37.863599 °
				-121.323341 °	-121.322442 °
DWR ID	DWR_RD0544_01_s_2012_9				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD0544_108_9_20160929_00011.jpg



Looking southwest at dense landscaping on landward slope fall 2015

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	0.64	Rating **	U	Issue No.	9 (cont)	
LM End	0.70	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.863935 °		37.863599 °
				-121.323341 °		-121.322442 °
DWR ID	DWR_RD0544_01_s_2012_9					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 2 of 2 : FA_2016_RD0544_108_9_20160929_00012.jpg



Looking south at landscaping on landward slope.

LM Start	0.70	Rating **	U	Issue No.	10
LM End	0.70	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863575 °	37.863575 °
				-121.322367 °	-121.322367 °
DWR ID	DWR_RD0544_01_s_2012_10				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleander on waterward slope.					

Photo 1 of 1 : FA_2016_RD0544_108_10_20160929_00013.jpg



Looking south at dense oleanders on waterward slope fall 2015.

LM Start	0.73	Rating **	A/W	Issue No.	12
LM End	0.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.863380 °	37.863380 °
				-121.321897 °	-121.321897 °
DWR ID	DWR_RD0544_01_s_2012_12				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	73
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.863016 °	37.863016 °
				-121.321137 °	-121.321137 °
DWR ID	DWR_RD0544_01_f_2013_73				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.81	Rating **	U	Issue No.	93
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.862694 °	37.862694 °
				-121.320887 °	-121.320887 °
DWR ID	DWR_RD0544_01_f_2014_93				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

A photograph showing a gravel-covered ground in the foreground. In the background, there is a large, dense evergreen tree, possibly a spruce or fir, with some dry, yellowish-brown grass or brush at its base. The scene is outdoors, and the lighting suggests it might be late afternoon or early morning.

Looking west at untrimmed trees on landward slope and toe fall 2015.

LM Start	1.12	Rating **	U	Issue No.	39
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.859423 °	37.859423 °
				-121.318328 °	-121.318328 °
DWR ID	DWR_RD0544_01_s_2012_39				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope.					

A gravel road curves through a landscape. On the right side of the road, there are large, leafy green trees. In the background, a body of water is visible under a clear blue sky. The road is made of light-colored gravel and leads towards the horizon.


Looking southwest at untrimmed tree on landward slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_108_15_20160929_00014.jpg




Looking southeast at dense vegetation on landward toe.

Photo 1 of 1 : FA_2016_RD0544_108_89_20161107_00134.jpg



Looking southwest at dense veg on landward slope and toe.

Photo 1 of 1 : FA_2016_RD0544_108_19_20161107_00135.jpg



Looking south at typical of dense veg on waterward slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	N/A : Not Applicable A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	1.42	Rating **	U	Issue No.	87
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855948 °	37.855043 °
				-121.321250 °	-121.321122 °
DWR ID	DWR_RD0544_01_s_2015_87				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0544_108_87_20160929_00051.jpg



Looking west at untrimmed tree at landward toe fall 2015.

LM Start	1.43	Rating **	N	Issue No.	13
LM End	1.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855778 °	37.855778 °
				-121.321206 °	-121.321206 °
DWR ID	DWR_RD0544_01_s_2012_13				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	1.44	Rating **	N	Issue No.	14
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855583 °	37.855583 °
				-121.321177 °	-121.321177 °
DWR ID	DWR_RD0544_01_s_2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_108_94_20160929_00058.jpg



Looking north at vegetation on waterward shoulder and slope.

Photo 1 of 1 : FA_2016_RD0544_108_42_20161107_00136.jpg



Looking at dense veg. on landward slope and toe.

Photo 1 of 3 : FA_2016_RD0544_108_119_20160929_00073.jpg



Looking southeast at damaged waterward slope fall 2015.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	1.50	Rating **	U	Issue No.	119 (cont)	
LM End	1.51	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.854844 °		37.854564 °
				-121.321090 °		-121.321031 °
DWR ID	DWR_RD0544_01_f_2015_119					
Comment Code						
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.						
Inspector Comment						
Damaged levee slope due to fishermen using slope as a ramp.						

Photo 2 of 3 : FA_2016_RD0544_108_119_20160929_00074.jpg



Looking east at damaged waterward slope fall 2015.

LM Start	1.50	Rating **	U	Issue No.	119 (cont)
LM End	1.51	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2016_RD0544_108_119_20160929_00075.jpg



Looking southeast at damaged waterward slope fall 2015

LM Start	1.57	Rating **	U	Issue No.	43
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.854108 °	37.853980 °
				-121.321582 °	-121.324213 °
DWR ID	DWR_RD0544_01_s_2012_43				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation waterward slope.					

Photo 1 of 1 : FA_2016_RD0544_108_43_20161107_00137.jpg



Looking east at dense veg on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	1.59	Rating **	U	Issue No.	95
LM End	1.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.854299 °	37.854299 °
				-121.321865 °	-121.321865 °
DWR ID	DWR_RD0544_01_f_2014_95				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landward slope.					

Photo 1 of 1 : FA_2016_RD0544_108_95_20161107_00138.jpg



Looking southwest at untrimmed tree on landward slope.

LM Start	1.64	Rating **	U	Issue No.	96
LM End	1.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.854681 °	37.854681 °
				-121.322493 °	-121.322493 °
DWR ID	DWR_RD0544_01_f_2014_96				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0544_108_96_20160929_00059.jpg



Looking at untrimmed tree on landward slope and toe.

LM Start	1.72	Rating **	M	Issue No.	55
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.854530 °	37.852850 °
				-121.323870 °	-121.324058 °
DWR ID	DWR_RD0544_01_s_2012_55				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	1.72	Rating **	U	Issue No.	174	
LM End	1.72	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.854506 °		37.854506 °
				-121.323886 °		-121.323886 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43023						
DS_ID:22648						
EP_NO: 4114						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: - levee depression on both sides of the levee.- 2-inch electric conduit on waterside and service pole on landside.Walkway in poor structural condition.						
FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 2 feet below the crown, pump mounted on pile structure pier in the stream.						
Siphon breaker on the landward slope. Concrete standpipe at the toe of the landward slope. (App. No. 4114-Katie M. Feck) O&M Manual SJR 007, April 1964.						
FS Date: 10/29/2013						

LM Start	1.72	Rating **	U	Issue No.	174 (cont)
LM End	1.72	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_43023_41786.jpg



WS view: pipe, conduit, walkway, and pump on levee slope.

Photo 2 of 2 : UCIP_FA_2016_43023_41785.jpg



WS view: pump on wooden pile structure in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	1.78	Rating **	M	Issue No.	88
LM End	1.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.853770 °	37.853770 °
				-121.324293 °	-121.324293 °
DWR ID	DWR_RD0544_01_s_2015_88				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.80	Rating **	C	Issue No.	20
LM End	1.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.853445 °	37.853445 °
				-121.324227 °	-121.324227 °
DWR ID	DWR_RD0544_01_s_2012_20				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	1.82	Rating **	C	Issue No.	5
LM End	1.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.853188 °	37.853188 °
				-121.324145 °	-121.324145 °
DWR ID	DWR_RD0544_01_s_2013_5				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damaged by vehicle traffic.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	1.85	Rating **	C	Issue No.	21
LM End	1.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.852771 °	37.852771 °
				-121.324014 °	-121.324014 °
DWR ID	DWR_RD0544_01_s_2012_21				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	1.91	Rating **	U	Issue No.	64
LM End	1.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.852006 °	37.851746 °
				-121.323554 °	-121.323328 °
DWR ID	DWR_RD0544_01_f_2015_64				
Comment Code					
GA : Garbage					
Inspector Comment					
Plastic sheeting and rubber tires stored at landward toe.					

Photo 1 of 2 : FA_2016_RD0544_108_64_20160929_00044.jpg



Looking west at plastic sheeting stored at landward toe.

LM Start	1.91	Rating **	U	Issue No.	64 (cont)
LM End	1.93	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_RD0544_108_64_20160929_00045.jpg



Looking southwest at rubber tires stored at landward toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	1.94	Rating **	M	Issue No.	44
LM End	2.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.851615 °	37.848105 °
				-121.323210 °	-121.324857 °
DWR ID	DWR_RD0544_01_s_2012_44				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Issue has been corrected, but should be monitored.					

No Photos

LM Start	2.01	Rating **	C	Issue No.	90
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.850825 °	37.850825 °
				-121.322475 °	-121.322475 °
DWR ID	DWR_RD0544_01_s_2014_90				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA grouted rodent hole on levee crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.02	Rating **	C	Issue No.	38
LM End	2.02	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.850534 °	37.850534 °
				-121.322285 °	-121.322285 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No sign of new erosion observed at the repaired site.					
06/24/2015: No significant change observed.					
06/19/2014: The erosion was repaired.					
08/13/2013: No significant change observed.					
08/07/2012: The erosion is right at the inside of a river bend. Dense vegetation is visible at the site. [2016 Site ID:RD0544U01RM48.81]					

No Photos

LM Start	2.02	Rating **	M	Issue No.	97
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.850632 °	37.848206 °
				-121.322501 °	-121.324869 °
DWR ID	DWR_RD0544_01_f_2014_97				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.25	Rating **	U	Issue No.	169
LM End	2.25	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848225 °	37.848225 °
				-121.324868 °	-121.324868 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23945 DS_ID:22650 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Siphon breaker on the landward slope not found. It has been removed and pipe plugged.Huge levee slope erosion on landside.2-inch electric conduit on waterside, service pole on landside. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.0 feet below the crown, pump on pile structure in the stream. Steel walkway to the pump. 2-inch electric conduit on waterside, power pole on landside. O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

LM Start	2.25	Rating **	U	Issue No.	169 (cont)
LM End	2.25	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_23945_42007.jpg



WS view: steel pipe, walkway to the pump, conduit (bottom left) on levee slope.

Photo 2 of 2 : UCIP_FA_2016_23945_42006.jpg



WS view: steel pipe, walkway to the pump, and pump on steel pile structure in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.26	Rating **	U	Issue No.	23
LM End	2.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.848155 °	37.848155 °
				-121.324897 °	-121.324897 °
DWR ID	DWR_RD0544_01_s_2012_23				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Caving/erosion around irrigation pipe on landside slope.					

LM Start	2.26	Rating **	U	Issue No.	23 (cont)
LM End	2.26	Issue Type +	Ma	Location *	LS

LM Start	2.26	Rating **	U	Issue No.	23 (cont)
LM End	2.26	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : FA_2016_RD0544_108_23_20160929_00017.jpg



Looking south at erosion around irrigation pipe on landside slope. (Fall 2014)

Photo 2 of 3 : FA_2016_RD0544_108_23_20160929_00018.jpg



Looking north at erosion under irrigation pipe on landside slope.

Photo 3 of 3 : FA_2016_RD0544_108_23_20160929_00019.jpg



Looking east at erosion under irrigation pipe on landside slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.26	Rating **	C	Issue No.	117
LM End	2.26	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.848142 °	37.848142 °
				-121.324858 °	-121.324858 °
DWR ID	DWR_RD0544_01_s_2016_117				
Comment Code					
FE : Fence					
Inspector Comment					
Landowner has lock on gate. Not able to access from LM. 2.26 to 2.95					

No Photos

LM Start	2.26	Rating **	U	Issue No.	170
LM End	2.26	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848052 °	37.848052 °
				-121.324846 °	-121.324846 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23946 DS_ID:22651 EP_NO: 3300 Repair Type: Urgent Crossing Status: Found UCIP Comments: - erosion on landside and waterside levee slopes due to the pipe leakage.- 1.5-inch electric conduit FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 3.5 feet below the crown, pump mounted on pile structure in the stream. Siphon breaker on the landward slope. Concrete standpipe and service pole at the toe of the landward slope. (App. No. 3300-Lloyd Phelps) O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

Photo 1 of 2 : UCIP_FA_2016_23946_42017.jpg



WS view: exposed pipe, walkway to pump, pump on pile structure in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.26	Rating **	U	Issue No.	170 (cont)
LM End	2.26	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848052 °	37.848052 °
				-121.324846 °	-121.324846 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23946 DS_ID:22651 EP_NO: 3300 Repair Type: Urgent Crossing Status: Found UCIP Comments: - erosion on landside and waterside levee slopes due to the pipe leakage.- 1.5-inch electric conduit FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 3.5 feet below the crown, pump mounted on pile structure in the stream. Siphon breaker on the landward slope. Concrete standpipe and service pole at the toe of the landward slope. (App. No. 3300-Lloyd Phelps) O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

Photo 2 of 2 : UCIP_FA_2016_23946_42016.jpg



WS view: walkway to pump, pump on pile structure in the stream.

LM Start	2.26	Rating **	M	Issue No.	164
LM End	2.26	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848029 °	37.848029 °
				-121.324851 °	-121.324851 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24887 DS_ID:22652 EP_NO: 13554 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - levee slope erosion on landside.- needs cleaning of siphon breaker. FIELD_STRUCT_DESC: 12-inch steel pipe, pump in concrete standpipe on drainage ditch on landside. Siphon breaker in steel riser on waterside. (App. No. 13554 - Phelps; 12/7/82), O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

Photo 1 of 2 : UCIP_FA_2016_24887_44830.jpg



WS view: steel pipe immersed into the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 2 of 2 : UCIP_FA_2016_24887_44829.jpg



WS view: siphon breaker inside steel pipe riser (bottom) on levee slope.

Photo 1 of 1 : FA_2016_RD0544_108_98_20161107_00139.jpg



Looking south at untrimmed trees on landward slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.27	Rating **	M	Issue No.	8	
LM End	2.33	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.847973 °		37.847105 °
				-121.324820 °		-121.324577 °
DWR ID	DWR_RD0544_01_s_2012_8					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

No Photos

LM Start	2.32	Rating **	M	Issue No.	34
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.847292 °	37.846743 °
				-121.324662 °	-121.324336 °
DWR ID	DWR_RD0544_01_s_2012_34				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent hole within this reach.					

Photo 1 of 2 : FA_2016_RD0544_108_34_20160929_00025.jpg



Looking south at several rodent holes on landward shoulder and slope.

LM Start	2.32	Rating **	M	Issue No.	34 (cont)
LM End	2.36	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD0544_108_34_20160929_00026.jpg



Looking at rodent hole on levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.36	Rating **	M	Issue No.	74
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.846687 °	37.846687 °
				-121.324278 °	-121.324278 °
DWR ID	DWR_RD0544_01_f_2013_74				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

LM Start	2.37	Rating **	C	Issue No.	65					
LM End	2.37	Issue Type +	Ma	Location *	LS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Trim / Thin Trees			37.846660 °	37.846660 °					
				-121.324240 °	-121.324240 °					
DWR ID	DWR_RD0544_01_s_2013_65									
Comment Code										
T2 : Thin trees to allow visibility of the ground and room to flood fight.										
Inspector Comment										

No Photos

LM Start	2.38	Rating **	M	Issue No.	67
LM End	2.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.846508 °	37.846508 °
				-121.324103 °	-121.324103 °
DWR ID	DWR_RD0544_01_s _ 2013_67				
Comment Code					
BU : Building					
Inspector Comment					
Building has been in place for several years.					

Photo 1 of 1 : FA_2016_RD0544_108_67_20160929_00046.jpg



Looking southeast at building at landward toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.40	Rating **	M	Issue No.	68
LM End	2.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.846315 °	37.846315 °
				-121.323875 °	-121.323875 °
DWR ID	DWR_RD0544_01_s_2013_68				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment on landward toe.					

Photo 1 of 1 : FA_2016_RD0544_108_68_20160929_00047.jpg



Looking west at equipment at landward toe.

LM Start	2.43	Rating **	M	Issue No.	178
LM End	2.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.845968 °	37.845968 °
				-121.323357 °	-121.323357 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46671 DS_ID:22654 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil around the siphon breaker eroded. FIELD_STRUCT_DESC: 8-inch pipe through the levee, 2 feet below the crown. Siphon breaker waterside slope. Pump on drainage channel bank. FS Date: 10/29/2013					

Photo 1 of 2 : UCIP_FA_2016_46671_44836.jpg



WS view: exposed steel pipe and siphon breaker on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.43	Rating **	M	Issue No.	178 (cont)
LM End	2.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.845968 °	37.845968 °
				-121.323357 °	-121.323357 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46671 DS_ID:22654 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil around the siphon breaker eroded. FIELD_STRUCT_DESC: 8-inch pipe through the levee, 2 feet below the crown. Siphon breaker waterside slope. Pump on drainage channel bank. FS Date: 10/29/2013					

Photo 2 of 2 : UCIP_FA_2016_46671_44835.jpg



WS view: exposed steel pipe and soil erosion around siphon breaker on levee slope.

LM Start	2.46	Rating **	M	Issue No.	99
LM End	3.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.845640 °	37.837391 °
				-121.322975 °	-121.317456 °
DWR ID	DWR_RD0544_01_f_2014_99				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0544_108_99_20160929_00060.jpg



Looking south at dense vegetation on waterward shoulder and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.57	Rating **	C	Issue No.	91
LM End	2.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.844423 °	37.844423 °
				-121.321896 °	-121.321896 °
DWR ID	DWR_RD0544_01_s_2014_91				
Comment Code					
PI : Pipe					
Inspector Comment					
Landowner repaired pipe without maintenance letter. Erosion around pipe on landward shoulder.					

No Photos

LM Start	2.57	Rating **	U	Issue No.	165
LM End	2.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.844386 °	37.844386 °
				-121.321894 °	-121.321894 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24889 DS_ID:22655 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Siphon breaker on the landward shoulder not found.Service pole on landside.Huge erosion on landside and waterside of the levee due to the pipe leakage. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 2.0 feet below the crown; pump mounted on pile structure in the stream. Steel walkway to the pump. Air relief valve on the waterside shoulder. Concrete distribution box at the toe of the landward slope. O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

Photo 1 of 2 : UCIP_FA_2016_24889_44839.jpg



WS view: exposed pipe, walkway to pump, and pump on pile structure in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.57	Rating **	U	Issue No.	165 (cont)	
LM End	2.57	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.844386 °		37.844386 °
				-121.321894 °		-121.321894 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:24889						
DS_ID:22655						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: Siphon breaker on the landward shoulder not found. Service pole on landside. Huge erosion on landside and waterside of the levee due to the pipe leakage.						
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 2.0 feet below the crown; pump mounted on pile structure in the stream. Steel walkway to the pump. Air relief valve on the waterside shoulder.						
Concrete distribution box at the toe of the landward slope. O&M Manual SJR 007, April 1964.						
FS Date: 10/29/2013						

Photo 2 of 2 : UCIP_FA_2016_24889_44838.jpg



WS view: exposed pipe, air relief valve, and huge erosion on levee slope.

LM Start	2.57	Rating **	M	Issue No.	60
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.844337 °	37.844337 °
				-121.321853 °	-121.321853 °
DWR ID	DWR_RD0544_01_s_2012_60				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Finger erosion on landward slope.					

Photo 1 of 2 : FA_2016_RD0544_108_60_20160929_00041.jpg



Looking north at slope damage on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	60 (cont)	
LM End	2.57	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.844337 °		37.844337 °
				-121.321853 °		-121.321853 °
DWR ID	DWR_RD0544_01_s_2012_60					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Finger erosion on landward slope.						

Photo 2 of 2 : FA_2016_RD0544_108_60_20160929_00042.jpg



Looking south at slope damage on landside slope.

LM Start	2.65	Rating **	C	Issue No.	100
LM End	2.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.843262 °	37.840656 °
				-121.321666 °	-121.318590 °
DWR ID	DWR_RD0544_01_f_2014_100				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	2.84	Rating **	N	Issue No.	22
LM End	2.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.841075 °	37.841075 °
				-121.320205 °	-121.320205 °
DWR ID	DWR_RD0544_01_s_2012_22				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.87	Rating **	M	Issue No.	69
LM End	2.87	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.841032 °	37.841032 °
				-121.319748 °	-121.319748 °
DWR ID	DWR_RD0544_01_s_2013_69				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on waterward slope.					

No Photos

LM Start	2.89	Rating **	U	Issue No.	106
LM End	3.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.840952 °	37.837588 °
				-121.319327 °	-121.317540 °
DWR ID	DWR_RD0544_01_s_2015_106				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense willows and vegetation waterward slope.					

Photo 1 of 1 : FA_2016_RD0544_108_106_20160929_00064.jpg



Looking southeast at dense willows (veg) on waterward slope and toe fall 2015.

LM Start	2.95	Rating **	M	Issue No.	107
LM End	2.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.840560 °	37.840467 °
				-121.318463 °	-121.318367 °
DWR ID	DWR_RD0544_01_s_2015_107				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several depressions on landward slope within this reach.					

Photo 1 of 2 : FA_2016_RD0544_108_107_20160929_00065.jpg



Looking south at depression on landward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	107 (cont)	
LM End	2.96	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			37.840560 °	37.840467 °	
				-121.318463 °	-121.318367 °	
DWR ID	DWR_RD0544_01_s_2015_107					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Several depressions on landward slope within this reach.						

Photo 2 of 2 : FA_2016_RD0544_108_107_20160929_00066.jpg



Looking west at depression on landward shoulder.

LM Start	2.95	Rating **	U	Issue No.	46
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.840697 °	37.840697 °
				-121.318252 °	-121.318252 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site.					
08/07/2012: The erosion is immediately upstream of a river bend.					
Dense vegetation is visible at the erosion site. [2016 Site ID:RD0544U01RM49.67]					

Photo 1 of 2 : SJR2016_RD0544U01RM49.67_1.jpg



Front view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	2.95	Rating **	U	Issue No.	46 (cont)	
LM End	2.95	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.840697 °	37.840697 °	
				-121.318252 °	-121.318252 °	
DWR ID						
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site.						
08/07/2012: The erosion is immediately upstream of a river bend.						
Dense vegetation is visible at the erosion site. [2016 Site ID:RD0544U01RM49.67]						

Photo 2 of 2 : SJR2016_RD0544U01RM49.67_3.jpg



Close view of the site.

LM Start	2.95	Rating **	U	Issue No.	47
LM End	3.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.840485 °	37.837225 °
				-121.318390 °	-121.317408 °
DWR ID	DWR_RD0544_01_s_ 2012_47				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0544_108_47_20160929_00037.jpg



Looking south at dense veg on landward slope fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	3.08	Rating **	M	Issue No.	108
LM End	3.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.838733 °	37.838733 °
				-121.317918 °	-121.317918 °
DWR ID	DWR_RD0544_01_s_2015_108				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.14	Rating **	M	Issue No.	76
LM End	3.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.837929 °	37.837929 °
				-121.317663 °	-121.317663 °
DWR ID	DWR_RD0544_01_f_2013_76				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damaged extends from levee slope to shoulder.					

Photo 1 of 1 : FA_2016_RD0544_108_76_20160929_00048.jpg



Looking east at slope damage on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	3.16	Rating **	U	Issue No.	175
LM End	3.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.837556 °	37.837556 °
				-121.317523 °	-121.317523 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43025 DS_ID:22656 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - huge levee slope erosion on landside. Walkway to distro box on LS toe in poor structural condition.- 1-inch electric conduit, power pole on landside.- not clear whether this is a irrigation or drainage pipe. FIELD_STRUCT_DESC: 1 of 2: Two 14-inch steel pipes through the levee, 8.0 feet below the crown. Slide gates in 6-foot by 6-foot concrete distribution box at the toe of the landward slope. O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

LM Start	3.16	Rating **	U	Issue No.	175 (cont)
LM End	3.16	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_43025_42207.jpg



WS view: exposed steel pipes, levee slope, and pumphouse for 2nd pipe.

Photo 2 of 2 : UCIP_FA_2016_43025_42206.jpg



WS view: exposed steel pipes on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	3.17	Rating **	U	Issue No.	176
LM End	3.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.837544 °	37.837544 °
				-121.317517 °	-121.317517 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:43026
DS_ID:22681
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: Huge erosion and levee damage on landside slope due to the leaky pipe. Walkway to distro box on LS toe in poor structural condition.
FIELD_STRUCT_DESC: 2 of 2: Two 14-inch steel pipes through the levee, 5.0 feet below the crown. Gate valve in pump house on the waterward slope. Slide gates in 6-foot by 6-foot concrete distribution box at the toe of the landward slope. 1-inch electric conduit on waterside, power pole on landside. Flow meter on waterside. O&M Manual SJR 007, April 1964.
FS Date: 10/29/2013

LM Start	3.17	Rating **	U	Issue No.	176 (cont)
LM End	3.17	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_43026_44845.jpg



WS view: exposed steel pipes, levee slope, and pumphouse.

Photo 2 of 2 : UCIP_FA_2016_43026_44844.jpg



WS view: pipe daylights on levee slope. Siphon breaker removed and plugged.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_108_62_20160929_00043.jpg




Looking east at slope damaged by foot traffic near pump house on waterside of levee.

Photo 1 of 1 : FA_2016_RD0544_108_49_20161107_00140.jpg



Looking northeast at dense veg on waterward slope.

Photo 1 of 1 : FA_2016_RD0544_108_48_20161107_00141.jpg



Looking south at typical view of dense veg on landward slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	3.28	Rating **	M	Issue No.	37
LM End	3.28	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.835951°	37.835951°
				-121.317062°	-121.317062°
DWR ID	DWR_RD0544_01_s_2012_37				
Comment Code					
RA : Ramp					
Inspector Comment					
Landowner has cut new ramp on waterside slope.					

Photo 1 of 1 : FA_2016_RD0544_108_37_20160929_00028.jpg



Looking north at ramp on waterward slope.

LM Start	3.29	Rating **	M	Issue No.	50
LM End	3.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.835815 °	37.835815 °
				-121.316997 °	-121.316997 °
DWR ID	DWR_RD0544_01_s_2012_50				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion located on waterside shoulder. Erosion caused by rain runoff.					

Photo 1 of 1 : FA_2016_RD0544_108_50_20160929_00039.jpg



Looking east at erosion on waterward slope.

LM Start	3.48	Rating **	M	Issue No.	56
LM End	3.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.833583 °	37.833583 °
				-121.314968 °	-121.314968 °
DWR ID	DWR_RD0544_01_s_2012_56				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	3.49	Rating **	M	Issue No.	51
LM End	4.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.833432 °	37.821853 °
				-121.314792 °	-121.319992 °
DWR ID	DWR_RD0544_01_s_2012_51				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.76	Rating **	M	Issue No.	109
LM End	3.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.830250 °	37.828013 °
				-121.312323 °	-121.311467 °
DWR ID	DWR_RD0544_01_s_2015_109				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.78	Rating **	M	Issue No.	102
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.830032 °	37.822028 °
				-121.312220 °	-121.319429 °
DWR ID	DWR_RD0544_01_f_2014_102				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_108_11_20161107_00142.jpg



Looking at large rodent holes on waterward slope.

Photo 1 of 2 : FA_2016_RD0544_108_123_20160929_00081.jpg



Looking southwest at tree limbs on landward slope,

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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 2 of 2 : FA_2016_RD0544_108_123_20160929_00082.jpg



Looking west at split tree on landward slope.

Photo 1 of 1 : FA_2016_RD0544_108_52_20161107_00143.jpg



Looking south at dense veg on landward slope.

Thursday, December 08, 2016 10:35 **FINAL DATA** Page 44 of 64

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.23	Rating **	M	Issue No.	84
LM End	4.24	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.825248 °	37.825248 °
				-121.313856 °	-121.313856 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: The erosion has been caused by irrigation pipe. [2016 Site ID:RD0544U01RM51.04]					

LM Start	4.23	Rating **	M	Issue No.	84 (cont)
LM End	4.24	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD0544U01RM51.04_1.jpg



Front view of the site.

Photo 2 of 2 : SJR2016_RD0544U01RM51.04_3.jpg



Close view of the site.

LM Start	4.23	Rating **	C	Issue No.	125
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.824360 °	37.824360 °
				-121.314360 °	-121.314360 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No sign of erosion observed at the repaired site.					
06/24/2015: The erosion has been repaired.					
06/19/2014: No significant change observed.					
08/13/2013: This erosion has been caused by instability of the levee .					
Larger trees exist downstream of the erosion site. [2016 Site					
ID:RD0544U01RM51.09]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_108_57_20160929_00040.jpg



Looking southwest at dense elderberries on landward slope fall 2015.

Photo 1 of 1 : FA_2016_RD0544_108_120_20161107_00144.jpg



Looking southwest at untrimmed trees on landward slope.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.29	Rating **	M	Issue No.	166
LM End	4.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825071 °	37.825071 °
				-121.314932 °	-121.314932 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24893 DS_ID:22660 EP_NO: 11536 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breaker was removed from CMP riser on lanside shoulder. Needs replacement.- some details about existing pipes available in new Application no. 18903.- electric control box on lanside and conduit on waterside. FIELD_STRUCT_DESC: 1 of 3: 12-inch diameter steel irrigation pipe, 16-inch diameter steel irrigation pipe and an 8-inch diameter steel discharge pipe through the levee, 3.0 feet below the crown. Pump on pump platform in channel with a walkway to the waterward slope. Siphon breaker in CMP riser and concrete standpipe on lanside. (App. No. 11536-Phelps) O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

LM Start	4.29	Rating **	M	Issue No.	166 (cont)
LM End	4.29	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_24893_44858.jpg



WS view: pipes, pumps, walkway to pump, and pile structure in the stream.

Photo 2 of 2 : UCIP_FA_2016_24893_44857.jpg



WS view: pumps, walkway to pump, and pile structure in the stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.30	Rating **	M	Issue No.	59
LM End	4.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.824943 °	37.824943 °
				-121.315008 °	-121.315008 °
DWR ID	DWR_RD0544_01_s_2012_59				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.40	Rating **	M	Issue No.	54
LM End	6.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.823617 °	37.808766 °
				-121.315550 °	-121.328198 °
DWR ID	DWR_RD0544_01_s_2012_54				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Issue has been corrected, but should be monitored.					

No Photos

LM Start	4.48	Rating **	M	Issue No.	103
LM End	4.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.823027 °	37.823027 °
				-121.316737 °	-121.316737 °
DWR ID	DWR_RD0544_01_f_2014_103				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.49	Rating **	U	Issue No.	41
LM End	4.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.822934 °	37.822934 °
				-121.316870 °	-121.316870 °
DWR ID	DWR_RD0544_01_s_2012_41				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0544_108_41_20160929_00033.jpg



Looking south at elderberries on landside slope and toe.

LM Start	4.64	Rating **	U	Issue No.	104
LM End	4.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.822033 °	37.821826 °
				-121.319432 °	-121.320071 °
DWR ID	DWR_RD0544_01_f_2014_104				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense untrimmed trees on landward slope.					

Photo 1 of 1 : FA_2016_RD0544_108_104_20160929_00062.jpg



Looking southwest at dense untrimmed trees on landward slope fall 2015.

LM Start	4.68	Rating **	U	Issue No.	27
LM End	4.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821847 °	37.821847 °
				-121.320027 °	-121.320027 °
DWR ID	DWR_RD0544_01_s_2012_27				
Comment Code					
GA : Garbage					
Inspector Comment					
Tires stock pile on landward toe.					

Photo 1 of 1 : FA_2016_RD0544_108_27_20160929_00020.jpg



Looking west at tires stock pile on landward berm.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.69	Rating **	U	Issue No.	105
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.821775 °	37.821775 °
				-121.320203 °	-121.320203 °
DWR ID	DWR_RD0544_01_f_2014_105				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Tree has overgrown onto levee crown.					

Photo 1 of 1 : FA_2016_RD0544_108_105_20160929_00063.jpg



Looking south at overgrown tree on landward shoulder.

LM Start	4.69	Rating **	M	Issue No.	111
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821783 °	37.821783 °
				-121.320237 °	-121.320237 °
DWR ID	DWR_RD0544_01_s_2015_111				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on landward shoulder.					

No Photos

LM Start	4.71	Rating **	M	Issue No.	28
LM End	4.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.821626 °	37.821626 °
				-121.320471 °	-121.320471 °
DWR ID	DWR_RD0544_01_s_2012_28				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD0544_108_28_20160929_00021.jpg



Looking northeast at erosion around irrigation pipe on landside slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.71	Rating **	M	Issue No.	28 (cont)	
LM End	4.71	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.821626 °		37.821626 °
				-121.320471 °		-121.320471 °
DWR ID	DWR_RD0544_01_s _ 2012_28					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						

Photo 2 of 2 : FA_2016_RD0544_108_28_20160929_00022.jpg



Looking north at erosion around irrigation pipe on landside

LM Start	4.71	Rating **	M	Issue No.	29
LM End	4.71	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821626 °	37.821626 °
				-121.320471 °	-121.320471 °
DWR ID	DWR_RD0544_01_s _ 2012_29				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
District has employed a rodent control program and grouted holes.					

No Photos

LM Start	4.71	Rating **	M	Issue No.	26
LM End	4.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821592 °	37.821253 °
				-121.320617 °	-121.320927 °
DWR ID	DWR_RD0544_01_s _ 2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_108_83_20161107_00145.jpg



Looking at large rodent hole on landward slope.

Photo 1 of 1 : FA_2016_RD0544_108_45_20160929_00034.jpg



A photograph showing an unauthorized pump house on a roadside. The structure is a small, white, rectangular building with a corrugated metal roof. A large black pipe runs horizontally from the left side of the building. In the foreground, there is a yellow pipe lying on the ground, partially obscured by dry brush. The background consists of a green field and a line of trees under a clear sky.

Looking west at a unauthorized pump house on landside toe.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.75	Rating **	U	Issue No.	167
LM End	4.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821153 °	37.821153 °
				-121.320995 °	-121.320995 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24894					
DS_ID:22661					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: - huge erosion on landside slope due to leaky pipe.- small depression on waterside slope.					
FIELD_STRUCT_DESC: 12-inch diameter steel pipe through the levee, 4.4 feet below crown. Pump house on the landward slope. Pressure relief valve on the landside slope. Concrete distribution box at toe of landward slope. O&M Manual SJR 007, April 1964.					
FS Date: 10/31/2013					

LM Start	4.75	Rating **	U	Issue No.	167 (cont)
LM End	4.75	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_24894_44864.jpg



WS view: exposed steel pipe on levee slope.

Photo 2 of 2 : UCIP_FA_2016_24894_44863.jpg



WS view: exposed steel pipe and a small depression on levee slope.
May be due to leaky pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0544 Upper Roberts Island

Looking north at large hole on waterward slope.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.78	Rating **	M	Issue No.	177
LM End	4.78	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.820691 °	37.820691 °
				-121.321159 °	-121.321159 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42962 DS_ID:22662 EP_NO: 1738 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. No handle on gatevalve on WS slope. FIELD_STRUCT_DESC: 12-inch diameter steel pipe through the levee, 6.0 feet below the crown. Gate valve on the waterward slope. Slant pump on the waterward slope. An electric conduit on landside, service pole on landside and two concrete standpipes on landside. (Permit No. 1738 - Barker Corp.) O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

LM Start	4.78	Rating **	M	Issue No.	177 (cont)
LM End	4.78	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_42962_42877.jpg



WS view: slant pump on steel framed support, gate valve, and headwall on levee slope.

Photo 2 of 2 : UCIP_FA_2016_42962_42876.jpg



WS view: gate valve without handwheel on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.81	Rating **	A/W	Issue No.	30
LM End	4.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.820227 °	37.820227 °
				-121.321115 °	-121.321115 °
DWR ID	DWR_RD0544_01_s_2012_30				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove dead stumps at landside toe and prunings on landside slope.					

No Photos

LM Start	4.83	Rating **	M	Issue No.	31
LM End	6.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820081 °	37.808766 °
				-121.321043 °	-121.328198 °
DWR ID	DWR_RD0544_01_s_2012_31				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	4.86	Rating **	M	Issue No.	114
LM End	4.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819642 °	37.819642 °
				-121.320777 °	-121.320777 °
DWR ID	DWR_RD0544_01_s_2015_114				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Cactus on landward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.89	Rating **	M	Issue No.	32
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819249 °	37.819249 °
				-121.320460 °	-121.320460 °
DWR ID	DWR_RD0544_01_s_2012_32				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Issue has been corrected, but should be monitored.					

No Photos

LM Start	4.95	Rating **	M	Issue No.	33
LM End	5.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818718 °	37.814662 °
				-121.319508 °	-121.320302 °
DWR ID	DWR_RD0544_01_s_2012_33				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation has been sprayed, and it should be monitored.					

Photo 1 of 2 : FA_2016_RD0544_108_33_20160929_00023.jpg



Looking southwest at cleared landward slope and berm fall 2015.

LM Start	4.95	Rating **	M	Issue No.	33 (cont)
LM End	5.26	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD0544_108_33_20160929_00024.jpg



Looking southwest at dense vegetation at landward slope and toe.(Spring 2015)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	4.96	Rating **	C	Issue No.	163
LM End	5.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818674 °	37.818128 °
				-121.319428 °	-121.319085 °
DWR ID	DWR_RD0544_01_s_2012_163				
Comment Code					
DT : Ditch					
Inspector Comment					
Agricultural ditch is outside the fifteen foot line.					

No Photos

LM Start	5.00	Rating **	M	Issue No.	17
LM End	5.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818152 °	37.818152 °
				-121.319095 °	-121.319095 °
DWR ID	DWR_RD0544_01_s_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	5.34	Rating **	M	Issue No.	35
LM End	5.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.813659 °	37.813659 °
				-121.319614 °	-121.319614 °
DWR ID	DWR_RD0544_01_s_2012_35				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
LMA corrected site, but some vegetation still exists.					

Photo 1 of 1 : FA_2016_RD0544_108_35_20160929_00027.jpg



Looking south at bamboo on landward slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	5.49	Rating **	U	Issue No.	18
LM End	5.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.812033 °	37.811687 °
				-121.319737 °	-121.320677 °
DWR ID	DWR_RD0544_01_s_2012_18				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry exists on the slope of the levee.					

LM Start	5.49	Rating **	U	Issue No.	18 (cont)
LM End	5.55	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_RD0544_108_18_20160929_00015.jpg



Looking south at dense vegetation on landward slope and toe. (Spring 2015)

Photo 2 of 2 : FA_2016_RD0544_108_18_20160929_00016.jpg



Looking south at elderberries on landside slope and toe.

LM Start	5.60	Rating **	U	Issue No.	121
LM End	5.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.811234 °	37.811234 °
				-121.321412 °	-121.321412 °
DWR ID	DWR_RD0544_01_f_2015_121				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Someone digging/excavating on waterward berm. Excavation in 3ft wide and eighteen inches deep and ten feet long.					

Photo 1 of 4 : FA_2016_RD0544_108_121_20160929_00076.jpg



Looking west at excavation on waterward berm.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 0544 Upper Roberts Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	5.64	Rating **	N	Issue No.	40
LM End	5.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.811199 °	37.811199 °
				-121.322176 °	-121.322176 °
DWR ID	DWR_RD0544_01_s_2012_40				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	5.71	Rating **	M	Issue No.	171
LM End	5.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.811193 °	37.811193 °
				-121.323532 °	-121.323532 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24233 DS_ID:22664 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2-inch electric conduit on waterside- service pole on landside.- needs a cover on pressure relief valve. FIELD_STRUCT_DESC: 16-inch steel pipe and electrical conduit through the levee, 5.3 feet below the crown, pump mounted on pile structure in the stream. Steel walkway to the pump. Two 36-inch concrete stand pipes on the landward side. United States Army Corps of Engineers, installation 1962. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

Photo 1 of 2 : UCIP_FA_2016_24233_42872.jpg



WS view: pump on pile structure, walkway to the pump on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	5.71	Rating **	M	Issue No.	171 (cont)	
LM End	5.71	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.811193 °	37.811193 °	
				-121.323532 °	-121.323532 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:24233 DS_ID:22664 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2-inch electric conduit on waterside- service pole on landside.- needs a cover on pressure relief valve. FIELD_STRUCT_DESC: 16-inch steel pipe and electrical conduit through the levee, 5.3 feet below the crown, pump mounted on pile structure in the stream. Steel walkway to the pump. Two 36-inch concrete stand pipes on the landward side. United States Army Corps of Engineers, installation 1962. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013						

Photo 2 of 2 : UCIP_FA_2016_24233_42871.jpg



WS view: pump on pile structure in the stream. Oil leaking pump.

LM Start	5.72	Rating **	U	Issue No.	115
LM End	5.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.811225 °	37.811225 °
				-121.323575 °	-121.323575 °
DWR ID	DWR_RD0544_01_s_2015_115				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landowner excavated hole above pipe.Large hole left on landward shoulder and slope. Call LMA about repair.					

Photo 1 of 3 : FA_2016_RD0544_108_115_20161107_00147.jpg



Looking west at large excavation on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

Photo 2 of 3 : FA_2016_RD0544_108_115_20161107_00146.jpg



Looking westly at large excavation on landward slope.

Photo 3 of 3 : FA_2016_RD0544_108_115_20161107_00148.jpg



Looking south at large excavation on landward slope.

Photo 1 of 1 : FA_2016_RD0544_108_122_20160929_00080.jpg



Looking northeast at concrete pipes stockpiled at waterward shoulder and slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	10/12/2016 11/02/2016	Richard Willoughby

LM Start	5.82	Rating **	U	Issue No.	124
LM End	5.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.811049 °	37.811049 °
				-121.325451 °	-121.325451 °
DWR ID	DWR_RD0544_01_s_2016_124				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD0544_108_124_20160929_00083.jpg



LM Start	5.82	Rating **	U	Issue No.	124 (cont)
LM End	5.82	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_RD0544_108_124_20160929_00084.jpg



Looking east at tree limbs on waterward slope.

LM Start	5.86	Rating **	M	Issue No.	116
LM End	6.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810685 °	37.808880 °
				-121.325827 °	-121.328055 °
DWR ID	DWR_RD0544_01_s_2015_116				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 02 Old River			Right	4.15
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/19/2016 - 4/19/2016		11/2/2016 - 11/2/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Jerry Robinson		Jerry Robinson	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	0.03	Rating **	M	Issue No.	3
LM End	0.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808603 °	37.808213 °
				-121.328719 °	-121.331241 °
DWR ID	DWR_RD0544_02_s_2012_3				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD0544_109_3_20160929_00002.jpg



Looking south at dense veg on landward slope and toe fall 2015.

LM Start	0.03	Rating **	M	Issue No.	3 (cont)
LM End	0.17	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD0544_109_3_20160929_00003.jpg



Looking south at dense vegetation at landward toe spring 2014.

LM Start	0.06	Rating **	M	Issue No.	2
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808516 °	37.810253 °
				-121.329203 °	-121.334930 °
DWR ID	DWR_RD0544_02_s_2012_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	0.40	Rating **	M	Issue No.	4
LM End	0.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809788 °	37.809788 °
				-121.334727 °	-121.334727 °
DWR ID	DWR_RD0544_02_s_2012_4				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.43	Rating **	M	Issue No.	1
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810250 °	37.819452 °
				-121.334933 °	-121.333755 °
DWR ID	DWR_RD0544_02_s_2012_1				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0544_109_1_20160929_00001.jpg



Looking southwest at dense vegetation at landward toe.

LM Start	0.52	Rating **	N	Issue No.	11
LM End	0.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.811592 °	37.811592 °
				-121.335018 °	-121.335018 °
DWR ID	DWR_RD0544_02_s_2012_11				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	0.64	Rating **	U	Issue No.	46
LM End	0.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.813197 °	37.813197 °
				-121.335055 °	-121.335055 °
DWR ID	DWR_RD0544_02_s_2015_46				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Depression greater than one inch deep and greater that three inches on landward shoulder					

Photo 1 of 1 : FA_2016_RD0544_109_46_20160929_00041.jpg



Looking at depression on landward shoulder.

LM Start	0.72	Rating **	A/W	Issue No.	5
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814333 °	37.814333 °
				-121.334592 °	-121.334592 °
DWR ID	DWR_RD0544_02_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.78	Rating **	U	Issue No.	8
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.815094 °	37.815094 °
				-121.333927 °	-121.333927 °
DWR ID	DWR_RD0544_02_s_2012_8				
Comment Code					
Inspector Comment					
Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.					

Photo 1 of 6 : FA_2016_RD0544_109_8_20161107_00086.jpg



Looking at hole next to siphon on waterward shoulder. (Fall 2016)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	0.78	Rating **	U	Issue No.	8 (cont)	
LM End	0.78	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start		End
Item	Erosion Areas			37.815094 °		37.815094 °
				-121.333927 °		-121.333927 °
DWR ID	DWR_RD0544_02_s_2012_8					
Comment Code						
Inspector Comment						
Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.						

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

Photo 2 of 6 : FA_2016_RD0544_109_8_20160929_00008.jpg



Looking at caving around 10" siphon pipe on waterside shoulder.

Photo 3 of 6 : FA_2016_RD0544_109_8_20160929_00009.jpg



Looking south at depression greater than 6" on waterside shoulder.

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

Photo 4 of 6 : FA_2016_RD0544_109_8_20160929_00010.jpg



Looking east at caving around siphon on waterside shoulder. (Spring 2012)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	0.78	Rating **	U	Issue No.	8 (cont)	
LM End	0.78	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start		End
Item	Erosion Areas			37.815094 °		37.815094 °
				-121.333927 °		-121.333927 °
DWR ID	DWR_RD0544_02_s_2012_8					
Comment Code						
Inspector Comment						
Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.						

LM Start	0.78	Rating **	U	Issue No.	8 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

Photo 5 of 6 : FA_2016_RD0544_109_8_20160929_00012.jpg



Looking west at caving around siphon on waterside shoulder. (Spring 2012)

Photo 6 of 6 : FA_2016_RD0544_109_8_20160929_00013.jpg



Looking south at caving around siphon on waterside shoulder. (Spring 2012)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	0.78	Rating **	U	Issue No.	70
LM End	0.78	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.815098 °	37.815098 °
				-121.333903 °	-121.333903 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24903 DS_ID:22665 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - 8 ft X 7 ft X 4 ft depression around siphon breaker on waterside slope.- no pipe visible on waterside due to dense vegetation.- electric conduit and service pole on landside. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.0 feet below the crown. Pump in drain ditch on the landward side. Siphon breaker on waterside levee slope. FS Date: 10/31/2013					

LM Start	0.78	Rating **	U	Issue No.	70 (cont)
LM End	0.78	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_24903_44882.jpg



WS view: depression on levee slope around siphon breaker.

Photo 2 of 2 : UCIP_FA_2016_24903_44881.jpg



WS view: depression on levee slope around siphon breaker. Siphon breaker in steel pipe riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.01	Rating **	M	Issue No.	6
LM End	1.01	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818100 °	37.818100 °
				-121.332750 °	-121.332750 °
DWR ID	DWR_RD0544_02_s_2012_6				
Comment Code					
GA : Garbage					
Inspector Comment					
Discarded wooden catwalk on waterward slope.					

Photo 1 of 1 : FA_2016_RD0544_109_6_20160929_00004.jpg



Looking southeast at garbage on waterside shoulder and slope.

LM Start	1.12	Rating **	U	Issue No.	20
LM End	1.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819530 °	37.819530 °
				-121.333827 °	-121.333827 °
DWR ID	DWR_RD0544_02_s_2012_20				
Comment Code					
PR : Prunings					
Inspector Comment					
Landowner is stock piling prunings on landward slope and toe.					

Photo 1 of 1 : FA_2016_RD0544_109_20_20160929_00028.jpg



Looking southwest at pruning piles on landward slope.

LM Start	1.13	Rating **	M	Issue No.	25
LM End	1.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819560 °	37.820083 °
				-121.333893 °	-121.334812 °
DWR ID	DWR_RD0544_02_s_2012_25				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.15	Rating **	M	Issue No.	18
LM End	1.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819830 °	37.820235 °
				-121.334233 °	-121.335268 °
DWR ID	DWR_RD0544_02_s_2012_18				
Comment Code					
AV : Abandoned vehicles					
Inspector Comment					
Vehicles and farm equipment stored on landside for several years. Area is defined a oversized levee. Landowner is in the process of moving items from landward shoulder.					

LM Start	1.15	Rating **	M	Issue No.	18 (cont)
LM End	1.22	Issue Type +	En	Location *	LS

LM Start	1.15	Rating **	M	Issue No.	18 (cont)
LM End	1.22	Issue Type +	En	Location *	LS

Photo 1 of 4 : FA_2016_RD0544_109_18_20160929_00024.jpg



Looking southwest at farm equipment stored on landward landing. (spring 2016)

Photo 2 of 4 : FA_2016_RD0544_109_18_20160929_00025.jpg



Looking southwest at equipment stored on landward shoulder. (spring 2015)

Photo 3 of 4 : FA_2016_RD0544_109_18_20160929_00026.jpg



Looking southwest at vehicles and farm equipment stored on landside landing. (spring 2014)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.15	Rating **	M	Issue No.	18 (cont)	
LM End	1.22	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.819830 °	37.820235 °	
				-121.334233 °	-121.335268 °	
DWR ID	DWR_RD0544_02_s_2012_18					
Comment Code						
AV : Abandoned vehicles						
Inspector Comment						
Vehicles and farm equipment stored on landside for several years. Area is defined a oversized levee. Landowner is in the process of moving items from landward shoulder.						

Photo 4 of 4 : FA_2016_RD0544_109_18_20160929_00027.jpg



Looking southwest at farm equipment, vehicles, and other items stored on landside landing. (spring 2013)

LM Start	1.30	Rating **	U	Issue No.	49
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820767 °	37.821582 °
				-121.336611 °	-121.338102 °
DWR ID	DWR_RD0544_02_f_2014_49				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Tobacco plants on waterward slope.					

Photo 1 of 2 : FA_2016_RD0544_109_49_20161107_00087.jpg



Looking southwest at dense veg on landward slope. (Fall 2016)

LM Start	1.30	Rating **	U	Issue No.	49 (cont)
LM End	1.40	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0544_109_49_20160929_00042.jpg



Looking southwest at dense vegetation on landward slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.34	Rating **	M	Issue No.	56
LM End	1.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821168 °	37.822083 °
				-121.337212 °	-121.338862 °
DWR ID	DWR_RD0544_02_s_2015_56				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.37	Rating **	M	Issue No.	14
LM End	1.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821323 °	37.821323 °
				-121.337725 °	-121.337725 °
DWR ID	DWR_RD0544_02_s_2012_14				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control bamboo on waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.38	Rating **	M	Issue No.	78
LM End	1.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821380 °	37.821380 °
				-121.337835 °	-121.337835 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46674					
DS_ID:22668					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - slope erosion on landside.					
FIELD_STRUCT_DESC: 8-inch pipe through the levee, 3.5 ft below the crown; open on both ends. Steel pipe riser on LS but not sure whether it is connected to the pipe.					
FS Date: 10/31/2013					

LM Start	1.38	Rating **	M	Issue No.	78 (cont)
LM End	1.38	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_46674_44890.jpg



WS view: steel pipe on levee slope with opened end.

Photo 2 of 2 : UCIP_FA_2016_46674_44889.jpg



LS view: steel pipe on levee slope with opened end. Levee slope erosion around the pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.38	Rating **	U	Issue No.	10
LM End	1.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821423 °	37.821423 °
				-121.337878 °	-121.337878 °
DWR ID	DWR_RD0544_02_s_2012_10				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on landward slope and toe.					

LM Start	1.38	Rating **	U	Issue No.	10 (cont)
LM End	1.38	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_RD0544_109_10_20160929_00018.jpg



Looking southwest at elderberries on landside slope.

Photo 2 of 2 : FA_2016_RD0544_109_10_20160929_00019.jpg



Looking south at elderberries on landside slope and toe.

LM Start	1.39	Rating **	C	Issue No.	21
LM End	1.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821463 °	37.821463 °
				-121.337900 °	-121.337900 °
DWR ID	DWR_RD0544_02_s_2012_21				
Comment Code					
PI : Pipe					
Inspector Comment					
Pipe should be removed or properly abandoned.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.42	Rating **	M	Issue No.	22 (cont)
LM End	1.42	Issue Type +	Ma	Location *	LS

A white pickup truck is parked on the right side of a gravel road. To the left of the road, there is a large pile of sand and debris, with a small, partially buried structure visible. The background shows a line of trees and a clear blue sky.

A photograph of a dirt road with gravel shoulders, surrounded by dry grass and trees, leading towards a green field in the background.

A gravel path leads from the foreground into a field of low-lying, scrubby vegetation. On the right side of the path, a large, mature tree with a thick trunk stands prominently. The path continues straight ahead towards a distant horizon under a clear, bright blue sky. A single utility pole is visible on the right side of the path in the distance.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 0544 Upper Roberts Island

No Photos

Looking north at dead tree and tree limbs on lanside shoulder and slope.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.51	Rating **	M	Issue No.	73
LM End	1.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.822415 °	37.822415 °
				-121.339699 °	-121.339699 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24288					
DS_ID:22669					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - two pumps with 16" steel pipe and an abandoned pump with 10" pipe inside pump house.- CMP riser cover needs repair. - electric conduits on waterside and power pole on landside.					
FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, 14.0 feet below the crown. Pump in pump house on the waterward berm. Slide gate in CM pipe riser on the waterward slope. Two CM cutoff walls. Distribution box and power pole on landward toe. O&M Manual SJR 007, April 1964.					
FS Date: 10/31/2013					

LM Start	1.51	Rating **	M	Issue No.	73 (cont)
LM End	1.51	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_24288_42947.jpg



WS view: slide gate in CMP riser, walkway, and pumphouse on levee slope.

Photo 2 of 2 : UCIP_FA_2016_24288_42946.jpg



WS view: two pumps discharges water into CMP riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.52	Rating **	M	Issue No.	71
LM End	1.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.822445 °	37.822445 °
				-121.339910 °	-121.339910 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24907					
DS_ID:24716					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No pipe and appurtenances found on waterside. Looks abandoned.					
FIELD_STRUCT_DESC: An abandoned 8-inch steelpipe through levee. Pump house on landside toe. Air vent in CMP riser on landside shoulder. Outlet on waterside not visible. No positive closure. Appears abandoned.					
FS Date: 10/31/2013					

LM Start	1.52	Rating **	M	Issue No.	71 (cont)
LM End	1.52	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_24907_44895.jpg



LS view: pipe, pump house, and appurtenances on levee slope.

Photo 2 of 2 : UCIP_FA_2016_24907_44894.jpg



LS view: pipe daylights on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	1.66	Rating **	M	Issue No.	26
LM End	2.08	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820863 °	37.819393 °
				-121.341285 °	-121.344428 °
DWR ID	DWR_RD0544_02_s_2012_26				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.86	Rating **	U	Issue No.	38
LM End	1.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.817983 °	37.817983 °
				-121.341682 °	-121.341682 °
DWR ID	DWR_RD0544_02_s_2015_38				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion/Caving on waterward shoulder and slope 18" x 6" x 15'.					

Photo 1 of 2 : FA_2016_RD0544_109_38_20160929_00038.jpg



Looking southeast at erosion/caving on waterward slope.

LM Start	1.86	Rating **	U	Issue No.	38 (cont)
LM End	1.86	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0544_109_38_20160929_00039.jpg



Looking east at erosion/caving on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

No Photos

Photo 1 of 1 : FA_2016_RD0544_109_57_20160929_00049.jpg



Looking west at pruning pile at landward toe.(Spring 2015)

Photo 1 of 1 : FA_2016_RD0544_109_58_20160929_00050.jpg



Looking at typical rodent holes on landward slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

No Photos

Photo 1 of 1 : FA_2016_RD0544_109_13_20160929_00022.jpg



Looking northwest at elderberries on landside slope and toe.

Photo 1 of 1 : FA_2016_RD0544_109_59_20160929_00051.jpg



Looking southwest at untrimmed trees on landward slope and toe fall 2015.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Reclamation District No. 0544 Upper Roberts Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.21	Rating **	M	Issue No.	32
LM End	2.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.820697 °	37.820697 °
				-121.346050 °	-121.346050 °
DWR ID	DWR_RD0544_02_s_2012_32				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.21	Rating **	M	Issue No.	77
LM End	2.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.820694 °	37.820694 °
				-121.346067 °	-121.346067 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41731 DS_ID:22675 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil erosion on landside slope.- new pump and pipe (according to the owner- three months old)- electric conduit through levee, service pole on landside. FIELD_STRUCT_DESC: 16-inch steel pipe and electric conduit through the levee, 3.0 feet below the crown. Pump on pile structure in the stream. Pressure breaker on the landward slope. Pipe exposed on both slopes and the berm. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

Photo 1 of 2 : UCIP_FA_2016_41731_42954.jpg



WS view: pipe, walkway, and pump on pile structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.21	Rating **	M	Issue No.	77 (cont)
LM End	2.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.820694 °	37.820694 °
				-121.346067 °	-121.346067 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41731 DS_ID:22675 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil erosion on landside slope.- new pump and pipe (according to the owner- three months old)- electric conduit through levee, service pole on landside. FIELD_STRUCT_DESC: 16-inch steel pipe and electric conduit through the levee, 3.0 feet below the crown. Pump on pile structure in the stream. Pressure breaker on the landward slope. Pipe exposed on both slopes and the berm. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

Photo 2 of 2 : UCIP_FA_2016_41731_42953.jpg



WS view: closer view of pipe, walkway, and pump on pile structure.

LM Start	2.24	Rating **	M	Issue No.	33
LM End	2.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821096 °	37.821945 °
				-121.346418 °	-121.347897 °
DWR ID	DWR_RD0544_02_s_2012_33				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

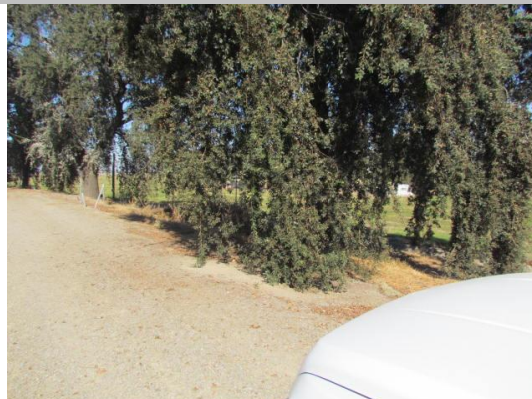
Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.28	Rating **	U	Issue No.	61
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.821473 °	37.821473 °
				-121.346860 °	-121.346860 °
DWR ID	DWR_RD0544_02_s_2015_61				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landward shoulder.					

Photo 1 of 1 : FA_2016_RD0544_109_61_20160929_00052.jpg



Looking west at untrimmed trees on landward slope fall 2015.

LM Start	2.29	Rating **	M	Issue No.	40
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821628 °	37.821628 °
				-121.346972 °	-121.346972 °
DWR ID	DWR_RD0544_02_s_2012_40				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.29	Rating **	M	Issue No.	74
LM End	2.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821628 °	37.821628 °
				-121.347016 °	-121.347016 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24293 DS_ID:22676 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump not found on the landward side. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.0 feet below the crown. No flap gate on the waterward end. Air vent on landside. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

LM Start	2.29	Rating **	M	Issue No.	74 (cont)
LM End	2.29	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_24293_42965.jpg



WS view: exposed steel pipe on berm.

Photo 2 of 2 : UCIP_FA_2016_24293_42964.jpg



WS view: 12" steel pipe connected to 10" pipe. Holes on pipe top found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.31	Rating **	M	Issue No.	51
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821757 °	37.821757 °
				-121.347181 °	-121.347181 °
DWR ID	DWR_RD0544_02_s_ 2014_51				
Comment Code					
PI : Pipe					
Inspector Comment					
Landowner repaired pump and replaced pipe and left pump shaft and pipe on waterward slope.					

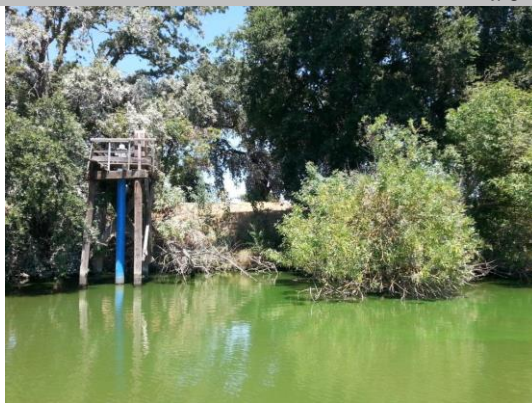
Photo 1 of 1 : FA_2016_RD0544_109_51_20160929_00045.jpg



Looking north at old pump shaft and pipe on waterward slope.

LM Start	2.31	Rating **	M	Issue No.	12
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821763 °	37.821763 °
				-121.347275 °	-121.347275 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/20/2013: No significant change observed.					
08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2016 Site ID:RD0544U02RM33.21]					

Photo 1 of 2 : SJR2016_RD0544U02RM33.21_1.jpg



Front view of the erosion site. View is partially blocked by the pump structure and vegetation at the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.31	Rating **	M	Issue No.	12 (cont)	
LM End	2.31	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.821763 °		37.821763 °
				-121.347275 °		-121.347275 °
DWR ID						
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/20/2013: No significant change observed.						
08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2016 Site ID:RD0544U02RM33.21]						

Photo 2 of 2 : SJR2016_RD0544U02RM33.21_3.jpg



Close view of the site.

LM Start	2.32	Rating **	M	Issue No.	41
LM End	2.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821840 °	37.821433 °
				-121.347428 °	-121.348849 °
DWR ID	DWR_RD0544_02_s_2012_41				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.44	Rating **	M	Issue No.	42
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821037 °	37.819200 °
				-121.349050 °	-121.359943 °
DWR ID	DWR_RD0544_02_s_2012_42				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	2.61	Rating **	M	Issue No.	75
LM End	2.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818888 °	37.818888 °
				-121.350390 °	-121.350390 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24295 DS_ID:22678 EP_NO: 8625A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned crossing. Needs proper abandonment.- pump removed. Pipe discontinued on landside.- pile structure in dilapalated condion. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 7.0 feet below the crown. Pump mounted on pile structure in the stream. Siphon breaker on landward shoulder. Power pole on the landward slope. (App. No. 8625A - Irvin Muller) O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

Photo 1 of 2 : UCIP_FA_2016_24295_42972.jpg



WS view: dilapalated walkway and pile structure. Pump removed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.61	Rating **	M	Issue No.	75 (cont)
LM End	2.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818888 °	37.818888 °
				-121.350390 °	-121.350390 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24295 DS_ID:22678 EP_NO: 8625A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned crossing. Needs proper abandonment.- pump removed. Pipe discontinued on landside.- pile structure in dilapalated condion. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 7.0 feet below the crown. Pump mounted on pile structure in the stream. Siphon breaker on landward shoulder. Power pole on the landward slope. (App. No. 8625A - Irvin Muller) O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

Photo 2 of 2 : UCIP_FA_2016_24295_42971.jpg



LS view: steel pipe cut out and discontidued (bottom).

LM Start	2.61	Rating **	U	Issue No.	17
LM End	2.61	Issue Type +	En	Location *	WS
Category	Rivers, Channels & Designated Floodways			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818872 °	37.818872 °
				-121.350392 °	-121.350392 °
DWR ID	DWR_RD0544_02_s_2012_17				
Comment Code					
Inspector Comment					
Remove dilapidated pump platform from river and abandoned pipe.					

Photo 1 of 3 : FA_2016_RD0544_109_17_20160929_00023.jpg



Looking east at dilapidated pump platform.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.61	Rating **	U	Issue No.	17 (cont)	
LM End	2.61	Issue Type +	En	Location *	WS	
Category	Rivers, Channels & Designated Floodways			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.818872 °	37.818872 °	
				-121.350392 °	-121.350392 °	
DWR ID	DWR_RD0544_02_s_2012_17					
Comment Code						
Inspector Comment						
Remove dilapidated pump platform from river and abandoned pipe.						

LM Start	2.61	Rating **	U	Issue No.	17 (cont)
LM End	2.61	Issue Type +	En	Location *	WS

Photo 2 of 3 : FA_2016_RD0544_109_17_20161107_00090.jpg



Looking east at abandoned pump platform. (Fall 2016)

Photo 3 of 3 : FA_2016_RD0544_109_17_20161107_00091.jpg



Looking at abandoned pipe on landward slope.

LM Start	2.61	Rating **	U	Issue No.	9
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.818861 °	37.818861 °
				-121.350400 °	-121.350400 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/25/2015: The site was discovered during the boat survey. Irrigation pipe leakage caused the soil to sink at the upper levee shoulder. The lower part of the levee is protected by riprap rocks. The irrigation pump was operating at the site. [2016 Site ID:RD0544U02RM33]					

Photo 1 of 2 : SJR2016_RD0544U02RM33_1.jpg



Front view of the erosion site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.61	Rating **	U	Issue No.	9 (cont)	
LM End	2.61	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.818861 °	37.818861 °	
				-121.350400 °	-121.350400 °	
DWR ID						
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/25/2015: The site was discovered during the boat survey. Irrigation pipe leakage caused the soil to sink at the upper levee shoulder. The lower part of the levee is protected by riprap rocks. The irrigation pump was operating at the site. [2016 Site ID:RD0544U02RM33]						

Photo 2 of 2 : SJR2016_RD0544U02RM33_3.jpg



Close view of the erosion. Vegetation around the site is visible.

LM Start	2.61	Rating **	M	Issue No.	76
LM End	2.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818860 °	37.818860 °
				-121.350428 °	-121.350428 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24297 DS_ID:24718 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs proper abandonment or closer of pipe end. FIELD_STRUCT_DESC: A 14-inch steel pipe and a conduit through levee, 2 feet below the crown. Open on both ends. No other appurtenances found. FS Date: 10/31/2013					

Photo 1 of 2 : UCIP_FA_2016_24297_42977.jpg



WS view: steel pipe and electric conduit on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.61	Rating **	M	Issue No.	76 (cont)	
LM End	2.61	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.818860 °	37.818860 °	
				-121.350428 °	-121.350428 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:24297 DS_ID:24718 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - needs proper abandonment or closer of pipe end. FIELD_STRUCT_DESC: A 14-inch steel pipe and a conduit through levee, 2 feet below the crown. Open on both ends. No other appurtenances found. FS Date: 10/31/2013						

Photo 2 of 2 : UCIP_FA_2016_24297_42976.jpg



LS view: steel pipe and electric conduit on levee shoulder.

LM Start	2.61	Rating **	U	Issue No.	69
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.818806 °	37.818806 °
				-121.350437 °	-121.350437 °
DWR ID	DWR_RD0544_02_f_2016_69				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion greater than 1' deep and greater than 3' wide.					

Photo 1 of 3 : FA_2016_RD0544_109_69_20161107_00093.jpg



Looking south at erosion on waterward shoulder and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.61	Rating **	U	Issue No.	69 (cont)	
LM End	2.61	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.818806 °	37.818806 °	
				-121.350437 °	-121.350437 °	
DWR ID	DWR_RD0544_02_f_2016_69					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion greater than 1' deep and greater than 3' wide.						

LM Start	2.61	Rating **	U	Issue No.	69 (cont)
LM End	2.61	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2016_RD0544_109_69_20161107_00092.jpg



Looking north at erosion on waterward shoulder and slope.

Photo 3 of 3 : FA_2016_RD0544_109_69_20161107_00094.jpg



Looking south at waterward erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	2.68	Rating **	M	Issue No.	7
LM End	2.70	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.817905 °	37.817905 °
				-121.351102 °	-121.351102 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
10/11/2013: No significant change observed.					
08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap, but the rip rap has been washed away. [2016 Site ID:RD0544U02RM32.91]					

LM Start	2.68	Rating **	M	Issue No.	7 (cont)
LM End	2.70	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD0544U02RM32.91_1.jpg



Front view of the pocket erosion. Note the vegetation and riprap at the site.

Photo 2 of 2 : SJR2016_RD0544U02RM32.91_3.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_109_52_20160929_00046.jpg



Looking south at vegetation on levee crown.

Photo 1 of 1 : FA_2016_RD0544_109_43_20160929_00040.jpg



A gravel path leads through dense, dry vegetation on a slope. The vegetation consists of tall, yellowish-brown grasses and shrubs. In the background, there are trees and a clear blue sky. The path is flanked by dense vegetation on both sides, leading towards a distant shoreline with some structures and a body of water visible on the left.

Looking at dense vegetation on landward and waterward slope.

Photo 1 of 1 : FA_2016_RD0544_109_53_20160929_00047.jpg



Looking southwest at untrimmed tree on landward slope fall 2015.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	3.20	Rating **	M	Issue No.	30
LM End	3.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.818748 °	37.819717 °
				-121.359440 °	-121.362733 °
DWR ID	DWR_RD0544_02_s_2013_30				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.20	Rating **	M	Issue No.	72
LM End	3.20	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818824 °	37.818824 °
				-121.359526 °	-121.359526 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24908					
DS_ID:22679					
EP_NO: 16972					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pump not found on the waterward side.Damaged pipe-plug on waterside. Pipe exposed on both sides of the levee.					
FIELD_STRUCT_DESC: 1 of 2: Two 8-inch pvc pipes (replaced two 8-inch steel pipes) through the levee, 2.0 feet below the crown. Siphon breaker on waterside. Pump on steel platform in drainage ditch. (App. No. 16972 - Joseph & Gayle Muller)					
FS Date: 10/31/2013					

Photo 1 of 2 : UCIP_FA_2016_24908_44898.jpg



WS view: 12" steel pipe (top), two 8" white pvc pipes (bottom) on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	3.20	Rating **	M	Issue No.	72 (cont)	
LM End	3.20	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.818824 °	37.818824 °	
				-121.359526 °	-121.359526 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:24908						
DS_ID:22679						
EP_NO: 16972						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pump not found on the waterward side.Damaged pipe-plug on waterside. Pipe exposed on both sides of the levee.						
FIELD_STRUCT_DESC: 1 of 2: Two 8-inch pvc pipes (replaced two 8-inch steel pipes) through the levee, 2.0 feet below the crown. Siphon breaker on waterside. Pump on steel platform in drainage ditch. (App. No. 16972 - Joseph & Gayle Muller)						
FS Date: 10/31/2013						

Photo 2 of 2 : UCIP_FA_2016_24908_44897.jpg



WS view: 8" white pvc pipe with siphon breaker on levee shoulder. An unplugged hole on the pipe.

LM Start	3.22	Rating **	M	Issue No.	62
LM End	3.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818985 °	37.818985 °
				-121.359675 °	-121.359675 °
DWR ID	DWR_RD0544_02_s_2015_62				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	3.29	Rating **	M	Issue No.	54
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819635 °	37.819635 °
				-121.360619 °	-121.360619 °
DWR ID	DWR_RD0544_02_f_2014_54				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.48	Rating **	U	Issue No.	36
LM End	3.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819576 °	37.819530 °
				-121.364056 °	-121.364653 °
DWR ID	DWR_RD0544_02_s_2012_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Cactus on landside slope.					

Photo 1 of 3 : FA_2016_RD0544_109_36_20160929_00035.jpg



Looking northwest at cactus on landward slope and toe fall 2015

LM Start	3.48	Rating **	U	Issue No.	36 (cont)
LM End	3.51	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2016_RD0544_109_36_20160929_00036.jpg



Looking north at cactus on landside slope and toe spring 2015

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	3.48	Rating **	U	Issue No.	36 (cont)	
LM End	3.51	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.819576 °	37.819530 °	
				-121.364056 °	-121.364653 °	
DWR ID	DWR_RD0544_02_s_2012_36					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Cactus on landside slope.						

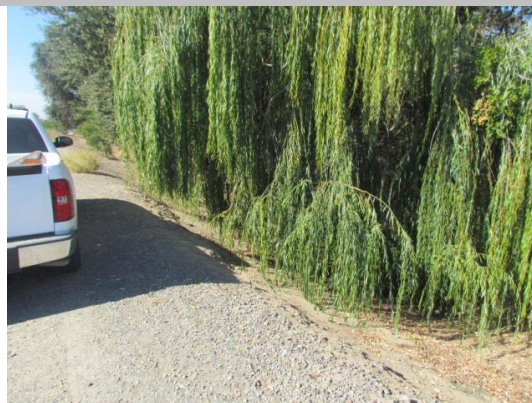
Photo 3 of 3 : FA_2016_RD0544_109_36_20160929_00037.jpg



Looking southwest at overgrown cactus on landside slope spring 2015.

LM Start	3.49	Rating **	U	Issue No.	55
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.819563 °	37.819542 °
				-121.364307 °	-121.364908 °
DWR ID	DWR_RD0544_02_f_2014_55				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0544_109_55_20160929_00048.jpg



Looking southwest at untrimmed trees on landward slope and toe fall 2015.

LM Start	3.55	Rating **	M	Issue No.	47
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819443 °	37.822442 °
				-121.365305 °	-121.374608 °
DWR ID	DWR_RD0544_02_s_2012_47				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	3.57	Rating **	M	Issue No.	19
LM End	3.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.819428 °	37.821334 °
				-121.365742 °	-121.369017 °
DWR ID	DWR_RD0544_02_f_2013_19				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.58	Rating **	U	Issue No.	67
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.819419 °	37.819419 °
				-121.365854 °	-121.365854 °
DWR ID	DWR_RD0544_02_f_2015_67				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on landward slope.					

LM Start	3.58	Rating **	U	Issue No.	67 (cont)
LM End	3.58	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_RD0544_109_67_20160929_00055.jpg



Looking northeast at typical view of rodent holes on landward slope.

Photo 2 of 2 : FA_2016_RD0544_109_67_20160929_00056.jpg



Looking north at typical view of rodent holes on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	3.58	Rating **	M	Issue No.	48
LM End	4.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819408 °	37.822442 °
				-121.366005 °	-121.374607 °
DWR ID	DWR_RD0544_02_s_2012_48				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.73	Rating **	A/W	Issue No.	63
LM End	3.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820492 °	37.820492 °
				-121.368093 °	-121.368093 °
DWR ID	DWR_RD0544_02_s_2015_63				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control willows on waterward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

LM Start	3.96	Rating **	U	Issue No.	79
LM End	3.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821700 °	37.821700 °
				-121.371752 °	-121.371752 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46064 DS_ID:22674 EP_NO: 16357 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe completely rusted thru on WS slope and has potential to cause great erosion. Pit and holes on pipe and levee. No vent pipe found on WS. No concrete vent pipe found at the LS toe. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.0 feet below the crown. Open on waterside end. O&M Manual SJR 7, April 1964. FS Date: 6/25/2015					

Photo 1 of 2 : UCIP_FA_2016_46064_43005.jpg



WS view: levee slope with pits and holes.

LM Start	3.96	Rating **	U	Issue No.	79 (cont)
LM End	3.96	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_46064_43004.jpg




WS view: close view of levee slope with pits and holes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	11/02/2016 11/02/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_RD0544_109_64_20160929_00053.jpg



Looking southwest at dense elderberry bush on landward slope and toe.
(Spring 2015)

Photo 1 of 1 : FA_2016_RD0544_109_65_20160929_00054.jpg



Looking southwest at dense vegetation on landward slope and toe.
(Spring 2015)

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement